

Murine Norovirus 1, CW3, Infectious Clone

Catalog No. NR-50895

Product Description: Murine norovirus 1 (MNV-1), clone CW3 was isolated in 2002 from brain tissue of STAT^{-/-} mice infected with MNV-1 by the oral route. It was plaque purified three times prior to deposit to BEI Resources.

Passage History: B2/R2 (Prior to deposit at BEI Resources/BEI Resources); B = Mouse BV2 cells; R = Mouse RAW 264.7 cells¹

Lot^{1,2}: 70016130

Manufacturing Date: 02JUL2018

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in RAW 264.7 cells ¹	Cell rounding and detachment	Cell rounding and detachment
Whole Genome Sequencing (~ 7350 nucleotides)	≥ 98% identity with MNV-1, Clone CW3 (GenBank: EF014462.1)	100% identity with MNV-1, Clone CW3 (GenBank: EF014462.1)
Titer by TCID ₅₀ Assay ^{3,4} in RAW 264.7 cells ¹ by Cytopathic Effect	Report results	8.9 × 10 ⁵ TCID ₅₀ per mL
Amplification of MNV-1 Sequence by RT-PCR	~ 1000 base pair amplicon	~ 1000 base pair amplicon
Sterility (21-day incubation) Harpo's HTYE broth ⁵ , 37°C and 26°C, aerobic Trypticase soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Blood agar, 37°C, aerobic Blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic DMEM with 10% FBS, 37°C and 5% CO ₂	No growth No growth No growth No growth No growth No growth No growth	No growth No growth No growth No growth No growth No growth No growth
Mycoplasma Contamination Agar and broth culture (14-day incubation at 37°C) DNA detection by PCR of extracted Test Article nucleic acid	None detected None detected	None detected None detected

¹Mus musculus macrophage cells (RAW 264.7; ATCC® TIB-71™)

²Grown in Dulbecco's Modified Eagle's Medium containing 4 mM L-glutamine, 4500 mg per L glucose, 1 mM sodium pyruvate, and 1500 mg per L sodium bicarbonate (ATCC® 30-2002) supplemented with 2% fetal bovine serum (ATCC® 30-2020) for 5 days at 37°C with 5% CO₂

³The Tissue Culture Infectious Dose 50% (TCID₅₀) endpoint is the 50% infectious endpoint in cell culture. The TCID₅₀ is the dilution of virus that under the conditions of the assay can be expected to infect 50% of the culture vessels inoculated, just as a Lethal Dose 50% (LD₅₀) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID₅₀ provides a measure of the titer (or infectivity) of a virus preparation.

⁴Assay plates were incubated 6 days at 37°C and 5% CO₂

⁵Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

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